



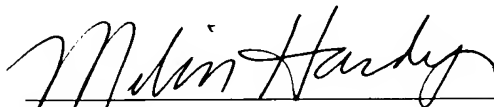
FILING BY "FIRST CLASS MAIL" UNDER 37 § C.F.R. 1.8

I hereby certify that the following correspondence is being deposited with the United States Postal Service as "First Class Mail" with proper postage in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on February 20, 2003.

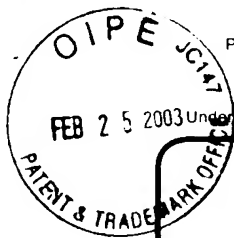
- 1) Change of Correspondence Address (Application)
- 2) Revocation of Power of Attorney or Authorization of Agent
- 3) Certified copy of the Syngenta Limited Power of Attorney dated November 3, 2002
- 4) Statement Under 37 CFR 3.73(b)
- 5) Copy of the Notice of Recordation of Assignment for U.S. Serial No. 10/069,465
- 6) Return Postcard

Melissa Hardy

Name



Signature



Please type a plus sign (+) inside this box → ☒

PTO/SB/82 (10-00)

Approved for use through 10/31/2002 OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	107069,465
Filing Date	10/29/2001
First Named Inventor	Windass
Group Art Unit	
Examiner Name	
Attorney Docket Number	50296/PPDUSPCT

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☐ Please change the correspondence address for the above-identified application to:

☐ Customer Number



Place Customer
Number Bar Code
Label here

OR

☐ Firm or
Individual Name

Address

Address

City

Country

State

ZIP

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name

Mary Kakefuda on Behalf of Syngenta Limited

Signature

☐ *Total of _____ forms are submitted

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Syngenta Limited

Application No./Patent No.: 10/069,465 Filed/Issue Date: 10/29/2001

Entitled: Methods for Detecting Low Frequencies of Mutations

Syngenta Limited, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 012989 Frame 0835, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

2/20/2003

Date

Mary Kakefuda on Behalf of Syngenta Limited

Typed or printed name

Title



TO ALL TO WHOM THESE PRESENTS shall come

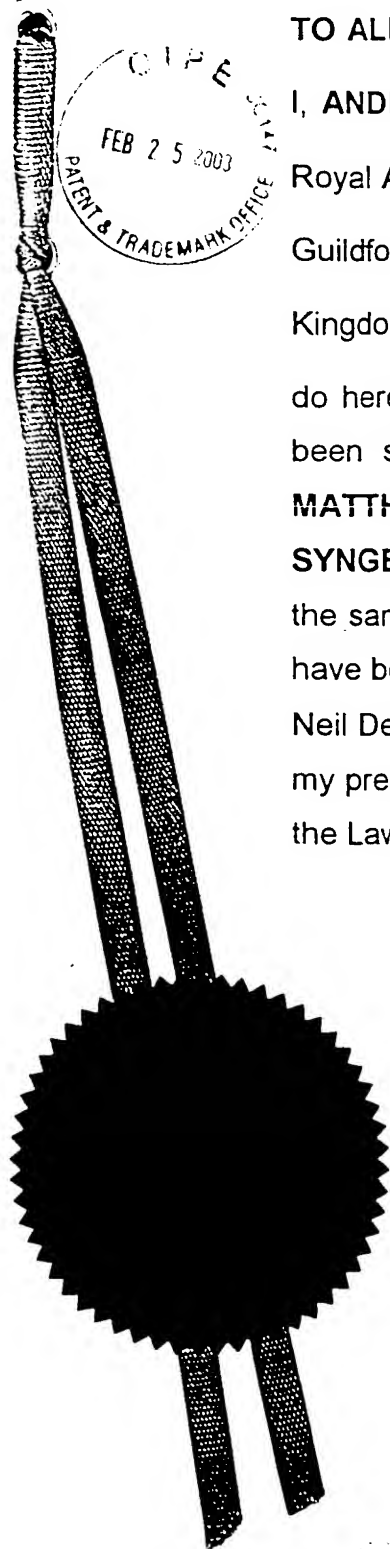
I, **ANDREW MICHAEL JACKSON**, Notary Public by
Royal Authority duly admitted and sworn practising at
Guildford in the County of Surrey in the United
Kingdom of Great Britain and Northern Ireland

do hereby certify that the Power of Attorney annexed hereto has
been signed as a Deed by **NEIL DEMPSEY** a Director and
MATTHEW DAVID BAYLISS the Secretary on behalf of
SYNGENTA LIMITED a company registered in England and that
the same "N Dempsey" and "Matthew Bayliss" thereto subscribed
have been compared with specimens of the signatures of the said
Neil Dempsey and Matthew David Bayliss held by me and made in
my presence AND THAT the Deed so signed is in accordance with
the Law of England and Wales and binding on the Company

IN FAITH AND TESTIMONY
whereof I have hereunto
subscribed my name and affixed
my Seal of Office this 20th day of
November in the year of Our Lord
Two thousand and two

Notary Public

My commission expires with life



BY THIS
organ
regi
R

APOSTILLE

(Hague Convention of 5 October 1961 / Convention de La Haye du 5 octobre 1961)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

1. Country: United Kingdom of Great Britain and Northern Ireland
Pays: Royaume-Uni de Grande-Bretagne et d'Irlande du Nord

This public document / Le présent acte public

2. Has been signed by **A M Jackson**
a été signé par

3. Acting in the capacity of **Notary Public**
agissant en qualité de

4. Bears the seal/stamp of **The Said Notary Public**
est revêtu du sceau/timbre de

5. at London/à Londres

Certified/Attesté
6. the/le **03 December 2002**

7. by Her Majesty's Principal Secretary of State for Foreign and Commonwealth Affairs /
par le Secrétaire d'Etat Principal de Sa Majesté aux Affaires Etrangères et du Commonwealth.

8. Number/sous No **G068426**



For the Secretary of State / Pour le Secrétaire d'Etat

SYNGENTA LIMITED POWER OF ATTORNEY

BY THIS POWER OF ATTORNEY SYNGENTA LIMITED a Company duly organised and existing under and by virtue of the laws of England and having its registered office at Syngenta, European Regional Centre, Priestley Road, Surrey Research Park, Guildford, Surrey GU2 7YH, United Kingdom (hereinafter called "the Company")

(A) **HEREBY** nominates constitutes and appoints

ALLEN Rose;	HUSKISSON Frank;
AMATO Antonio;	KAKEFUDA Mary;
ANDREWS Christopher Dr;	LEBEL Edouard Dr;
BASTIAN Werner Dr;	LEE Michael;
BIDDLE Jennifer;	MORTON Marcia Dr;
BIONDINI Flavio;	NOLAN James;
BLIND Valerie;	OSBORN Martin Dr;
BOWDICH Julie;	PALMER Sarah Dr;
BUTLER James Dr;	PETERS Cassandra;
CALLAGY Shelley;	ROEHRL Gerhard Dr;
CERONI Jocelyne;	RICKS Michael Dr;
CHANDLER Joanna;	RUDD Ann ;
CLAUSWITZ Kai-Uwe Dr;	SCHILLER Cornelia ;
COLLINS Jane;	SCHWARTZ Randee;
DAMMANN Michael;	SHIRLING Pamela;
DOWLING Clare;	SITZLER-SPICHER Lilly;
EBINGER-ZOELD Cornelia;	SOUTHERN David;
ELLIOTT Kathryn Dr;	SMOLDERS Walter;
EMMENEGGER Alice;	STEHLI VOGLER Helene;
FEEHAN Jessica;	STEHLIN Astrid;
FELIX Franz Dr;	STEINER Katrin;
FLATTERY Marian;	STULTS Larry Dr;
FRAINIER Lea;	SWIFT Jane;
GRIMM Marie-Christine;	TARRY Anne;
GUERNE Patrice;	TEOLI William;
GAAL Jozsef Dr;	TORCHIA Timothy Dr;
HARDY Melissa ;	VOEGELI-LANGE Regina Dr;
HAUGG Rudolf ;	VRANA Bruce;
HAMILTON Thomas ;	WAESPE Hans Rudolf Dr;
HAYES Catherine;	WARD Steve;
HOFMANN Joachim;	WARREN Greg;
HOHENBERGER Klaus Dr ;	WATERMAN Richard;
HOELSCHER Ingo Dr ;	WEICHSEL Christian Dr;
HOLDER Susan;	WRIGHT Kimberly;
HOUGHTON Malcolm;	YATES Michael;
	ZELLINGER James

to be the true and lawful Attorneys of the Company (hereinafter referred to as "the Attorneys") for and on behalf of the Company jointly and severally to act throughout the world in the matters set out below relating to applications for Patents for Inventions (which terms shall include certificates of supplementary protection inventorship certificates and the like) (hereinafter referred to as "Patents") and to the registration of Designs, Design Rights, Utility Models, Plant Variety Rights and equivalent rights and Copyright (hereinafter referred to as "Other Intellectual Property") already filed or hereafter to be filed in the name of the Company (whether solely or jointly with one or more other parties) that is to say

- (1) to prepare and file all documents, requests and declarations for obtaining the grant of Patents and extensions of term thereof, and for obtaining and maintaining the registration of Other Intellectual Property, including power to sign and execute applications for European Patents and to sign and execute all other documents pursuant to all proceedings established by the European Patent Convention; including power to sign and execute applications under the Patent Cooperation Treaty and to sign and execute all other documents pursuant to all proceedings established by the Patent Cooperation Treaty
- (2) to apply for and obtain any certificates of registration and renewal;
- (3) to pay the lawful fees and taxes and receive all official certificates;
- (4) to recover any documents relating to any such applications as aforesaid as well as any fees and taxes that may have been paid;
- (5) to apply for copies or duplicates of any official certificates;
- (6) to appoint and instruct any Counsel, Solicitor, Patent Attorney or other professional representative or agent (whether or not an employee of the Company) to prosecute, maintain, renew, amend, oppose, defend, cancel or abandon Patents and Other Intellectual Property belonging to the Company including the defence of oppositions or petitions for revocation or cancellation or like proceedings respecting such Patents and Other Intellectual Property belonging to other parties and to revoke and cancel all or any such appointments and instructions;

AND GENERALLY to do, sign, execute, give and accept all such deeds, documents, acts, notices, requisitions, communications and things as may be necessary for all or any of the purposes aforesaid; and

(B) **HEREBY** confirms and ratifies and, for itself and its successors and assigns, covenants to confirm and ratify whatsoever the Attorneys jointly or severally shall lawfully do or cause to be done by virtue of those presents.


(C) **HEREBY REVOKES** the Power of Attorney dated 1st July 2002.

This Power of Attorney shall cease to have effect on 31 December 2003. The Company may revoke this Power of Attorney in respect of any individual Attorney before 31 December 2003 by giving that person notice of revocation in writing.

IN WITNESS whereof this power of attorney has been executed as a deed this
2 day of NOVEMBER 2002.

Signed as a Deed by **SYNGENTA LIMITED**

.....COMPANY DIRECTOR

.....COMPANY SECRETARY

CANCELLED

O.I.P.E. JUN 05 2002

06-14-2002

Form PTO-1595
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

RECORDATION FORM COVER
PATENTS OF



102122344

COMMERCE
mark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

John David Windass
Stephen Paul Heaney
Carole Patricia Stanger
Annabel Renwick

6-5-02

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: October 31, 2001

2. Name and address of receiving party(ies)

Name: Syngenta Limited

Internal Address: Intellectual Property Department
Jealott's Hill International Research Centre

Street Address: PO Box NO 3538
Bracknell, Berkshire UNITED KINGDOM

City: _____ State: _____ Zip: RG42 6YA

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/069,465

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hale and Dorr LLP

Internal Address: Colleen Superko

Street Address: _____

City: _____ State: _____ Zip: _____

6. Total number of applications and patents involved: ☐

7. Total fee (37 CFR 3.41).....\$ 0.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0219

DO NOT USE THIS SPACE

16/13/2002 DBYRNE 00000145 080219 10069465

01 FC:58

40.00 CH

Colleen Superko
Name of Person Signing

Colleen Superko
Signature

05/21/2002

Date

Total number of pages including cover sheet, attachments, and documents ☐

Mail documents to be recorded with required cover sheet information to
Commissioner of Patents & Trademarks, Box Assignments
Washington D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

Continuation of Item 1 of Recordation Form Cover Sheet:

1. Names of conveying party(ies) (Continued from page 1):

David Mark Whitcombe

Stephen Little

Neil James Gibson

Jane Theaker



AUGUST 16, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

HALE AND DORR LLP
COLLEEN SUPERKO
60 STATE STREET
BOSTON, MA 02109



102122344A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/05/2002

REEL/FRAME: 012989/0835
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WINDASS, JOHN DAVID

DOC DATE: 10/31/2001

ASSIGNOR:

HEANEY, STEPHEN PAUL

DOC DATE: 10/31/2001

ASSIGNOR:

STANGER, CAROLE PATRICIA

DOC DATE: 10/26/2001

ASSIGNOR:

RENWICK, ANNABLE

DOC DATE: 12/06/2001

ASSIGNOR:

WHITCOMBE, DAVID MARK

DOC DATE: 11/13/2001

GIBSON, NEIL JAMES

DOC DATE: 11/22/2001
HALE & DORR DOCKETING

RE: 109846.293 US1

Action Date

Action to be taken

Docketed by: AA

On: 8-22-02

012989/0835 PAGE 2

ASSIGNOR:
THEAKER, JANE

DOC DATE: 11/21/2001

ASSIGNEE:
SYNGENTA LIMITED
INTELLECTUAL PROPERTY DEPARTMENT
JEALOTT'S HILL INTERNATIONAL
RESEARCH CENTRE
PO BOX NO 3538
BRACKNELL, BERKSHIRE, UNITED
KINGDOM
RG42 6YA

SERIAL NUMBER: 10069465
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

John David WINDASS, Stephen Paul HEANEY, Carole Patricia STANGER, Annabel RENWICK, David Mark WHITCOMBE, Stephen LITTLE, Neil James GIBSON and Jane THEAKER.

hereby sell(s), assign(s) and transfer(s) to ASSIGNEE, SYNGENTA Limited, a company created and existing under the laws of England and Wales, having its Head Office at Fernhurst, Haslemere, Surrey, GU27 3JE, and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled: **METHODS**.

and which is found in

- (a) X U.S. patent application executed on even date herewith;
- (b) X U.S. patent application executed on 26 April 2000
- (c) X U.S. application serial number filed on 10/069,465
- (d) X International application number PCT/GB00/01620

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or reexamination thereof;

ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenant(s) that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

Signed this

31st day of October 2001

WITNESS: C. Darling

DATE: 31st October 2001

31 day of October 2001

WITNESS: C. Darling

DATE: 31st October 2001

John David Windass
John David **WINDASS**

WITNESS: M A Arnold

DATE: 31st October 2001

Stephen Paul Heaney
Stephen Paul **HEANEY**

WITNESS: M A Arnold

DATE: 31 October 2001

ASSIGNMENT Continued Page 2

26th day of October 2001

WITNESS: C. Dawling
DATE: 26 October 2001

Carole Patricia Stanger
Carole Patricia **STANGER**
WITNESS: M. A. Arnold
DATE: 26 October 2001

6 day of December 2001

WITNESS: Tary Walcher
DATE: 6 December 2001

Annabel Renwick
Annabel **RENNICK**
WITNESS: Mar Medina
DATE: 6 December

13th day of November 2001

WITNESS: Alex
DATE: 13/11/01

D. Whitcombe
David Mark **WHITCOMBE**
WITNESS: Steve
DATE: 13/11/01

13th day of November 2001

WITNESS: Alex
DATE: 13/11/01

Stephen Little
Stephen **LITTLE**
WITNESS: Steve
DATE: 13/11/01

22nd day of November 2001

WITNESS: Sally
DATE: 22nd Nov 2001

Neil James Gibson
Neil James **GIBSON**
WITNESS: Michael
DATE: 22/11/2001

21st day of November 2001

WITNESS: Rachael Moore
DATE: 21st of November 2001

Jane Theaker
Jane **THEAKER**
WITNESS: Lynn Widdih
DATE: 21st OF NOVEMBER 2001